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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

**ALEXANDRIA, VA 22314** 

04/06/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET

**EXAMINER** 

PHAN, JAMES

PAPER NUMBER

**ART UNIT** 2872

DATE MAILED: 04/06/2004

APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/552.657	04/19/2000	Tomohiro Nakajima	0557-4969-2	2974

TITLE OF INVENTION: MULTIBEAM SCANNING APPARATUS

APPLN. TYPE SMALL ENTITY		ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	07/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
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OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET

04/06/2004

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	ransmitted to the USFTO, on the date indicated below.
(Depositor's name	
(Signature	
(Date	

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/552,657	04/19/2000	Tomohiro Nakajima	0557-4969-2	2974

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nonprovisional	NO	\$1330	)	\$0	\$1330	07/06/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS	ך	
PHAN, JAMES			2872 359-2040		_	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of agents Of firm (hav agent) an	inting on the patent front page f up to 3 registered patent R, alternatively, (2) the name ing as a member a registered d the names of up to 2 regis or agents. If no name is liste inted.	attorneys or 1	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE

Please check the appropriate assignee category or cal 4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	individual 🔾	corporation or other private group entit	y government	
☐ Issue Fee	☐ A check in the an		is enclosed		
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Advance Order - # of Copies	The Director is	☐ Payment by credit card. Form PTO-2038 is attached.  ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, Deposit Account Number (enclose an extra copy of this form).			
Director for Patents is requested to apply the Issue Fe	ee and Publication Fee (if any) or to re-appl	y any previously j	paid issue fee to the application identified ab	pove.	
(Authorized Signature)	(Date)				
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22850	22850 7590 04/06/2004			EXAMINER PHAN, JAMES		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,			PHAN,			
P.C. 1940 DUKE STREET		ART UNIT	PAPER NUMBER			
ALEXANDRIA,	VA 22314		2872			
			DATE MAILED: 04/06/200	4		

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	-
Notice of Allowability	09/552,657	NAKAJIMA, TON	MOHIRO
Notice of Allowability	Examiner	Art Unit	
	James Phan	2872	· · · · · · · · · · · · · · · · · · ·
The MAILING DATE of this communication appeals claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ( ) or other appropriate comm IGHTS. This application is	n this application. If not incountries in the mailed in control	luded lue course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>the amendment filed</u>	<u>3/15/04</u> .		
2. X The allowed claim(s) is/are 2,3,15-17 and 37.			
3. A The drawings filed on 19 April 2000 are accepted by the E	xaminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority unas ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ☐ (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date ☐ (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date ☐ (c) ☐ Including changes required by the attached Examiner' Paper No./Mail Date ☐ (d) ☐ Including changes required by the attached Examiner' Paper No./Mail Date ☐ (d) ☐ Including changes required by the attached Examiner' Paper No./Mail Date ☐ (d) ☐ Including changes required by the attached Examiner' Paper No./Mail Date ☐ (d) ☐ Including changes required by the labeled as such in the cache sheet. Replacement sheet(s) should be labeled as such in the cache sheet. Replacement sheet(s) should be labeled as such in the cache sheet. Replacement sheet(s) should be labeled as such in the cache sheet. Replacement sheet(s) should be labeled as such in the cache sheet. Replacement sheet(s) should be labeled as such in the cache sheet.	e been received. e been received in Application of this communication to file MENT of this application.  Initted. Note the attached EX es reason(s) why the oath of the submitted.  Is Amendment / Comment of the header according to 37 Center of the property of the header according to 37 Center of the header of the header according to 37 Center	on No ed in this national stage app e a reply complying with the CAMINER'S AMENDMENT of or declaration is deficient.  ew ( PTO-948) attached or in the Office action of the drawings in the front (not FR 1.121(d).	e requirements or NOTICE OF
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	osit of BIOLOGICAL MAT FOR THE DEPOSIT OF B	ERIAL must be submitte OLOGICAL MATERIAL.	d. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (	PTO-152)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), ./Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/N Paper No./Mail Date	08), 7. ⊠ Examiner's	s Amendment/Comment	
4.   Examiner's Comment Regarding Requirement for Deposit		s Statement of Reasons for	Allowance
of Biological Material	9. ⊠ Other <u>corr</u>	ected claim 15.	$\alpha$
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U.C. Datastand Todopode Office		James Ph	nan e

Application/Control Number: 09/552,657

Art Unit: 2872

## Corrected claim 15

The following corrected claim 15 replaces claim15 submitted by applicant on 3/15/04.

Claim 15 (Currently Amended): A multibeam scan apparatus comprising:

a light source emitting light beams from respective light sources formed in a unitary structure and arranged in a main scanning direction, outgoing beam directions in which the light beams travel being arranged so as to cross each other at a point, and the light beams forming images on having a same area of a scanned surface;

a deflection unit deflecting the light beams;

an optical unit causing the light beams from the deflection unit to form images on a scanned surface; and

an aperture a light beam restricting mechanism situated close to said point and arranged to shape the light beams, wherein said aperture is and incorporated into deflection surfaces of said deflection unit to shape the light beams to have a given spot size before the light beams enter said optical unit that forms the images, the light beams incident to the deflection unit having a spot size that is larger than a size of each of the deflection surfaces.

1 1.8.

Application/Control Number: 09/552,657

Art Unit: 2872

## **EXAMINER'S AMENDMENT**

An informal examiner's amendment to the record appears below to correct an obvious typographic error in claim 15. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 15, line 4, "light beam" has been changed to -light beams--. See attached corrected claim 15.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Phan whose telephone number is (571) 272-2317. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/552,657

Art Unit: 2872

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phan, J. April 1, 2004

> James Phan Primary Examiner

Page 3

Art Unit: 2872

# Corrected claim 15

The following corrected claim 15 replaces claim15 submitted by applicant on 3/15/04.

Claim 15 (Currently Amended): A multibeam scan apparatus comprising:

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an aperture a light beam restricting mechanism situated close to said point and arranged to shape the light beams, wherein said aperture is and incorporated into deflection surfaces of said deflection unit to shape the light beams to have a given spot size before the light beams enter said optical unit that forms the images, the light beams incident to the deflection unit having a spot size that is larger than a size of each of the deflection surfaces.

1.9.